

(No Model.)

C. F. LANCASTER.  
BICYCLE PEDAL.

No. 586,608.

Patented July 20, 1897.

*Fig. 1.*

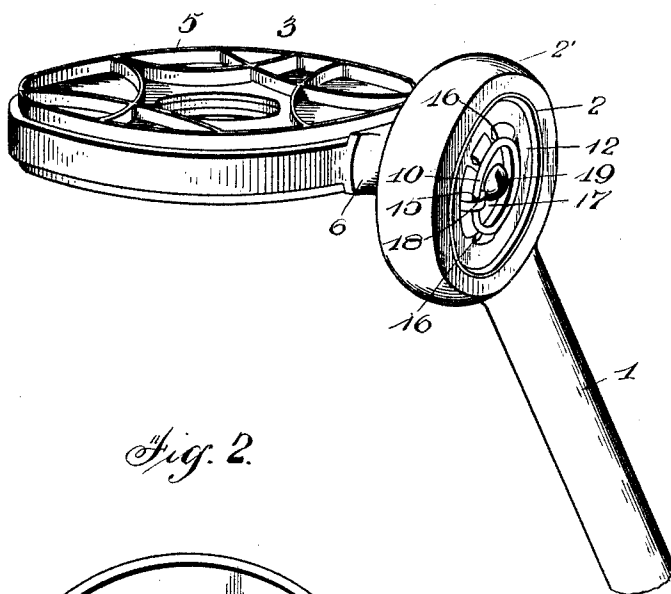


*Fig. 2.*

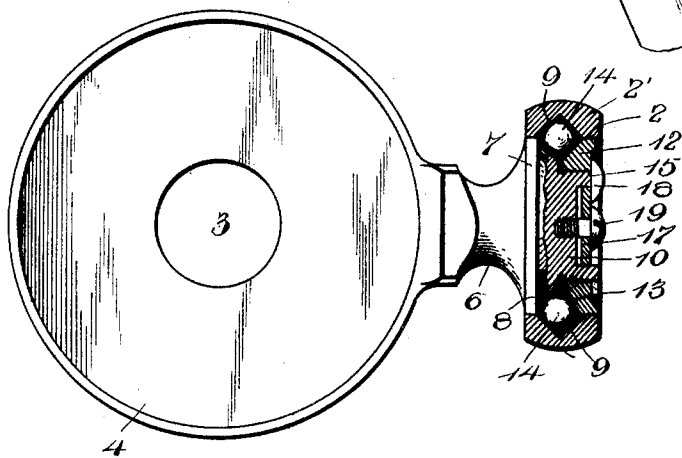
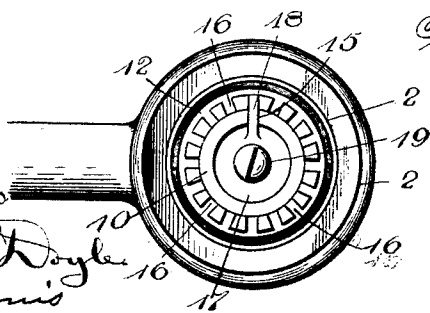


*Fig. 3.*



Witnesses

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# UNITED STATES PATENT OFFICE.

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## BICYCLE-PEDAL.

SPECIFICATION forming part of Letters Patent No. 586,608, dated July 20, 1897.

Application filed October 21, 1896. Serial No. 609,580. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES F. LANCASTER, a citizen of the United States, residing at Petoskey, in the county of Emmet and State of Michigan, have invented certain new and useful Improvements in Bicycle-Pedals; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention has relation to improvements in the construction of pedals for bicycles, and the object is to simplify the construction of the same.

To this end the novelty consists in the construction, combination, and arrangement of the same, as will be hereinafter more fully described, and particularly pointed out in the claim.

In the accompanying drawings the same figures of reference indicate the same parts of the invention.

Figure 1 is a perspective view of my improved pedal. Fig. 2 is a horizontal section, and Fig. 3 is a front elevation of the inner end of the pedal.

1 represents the crank, the outer integral end 2' of which is circular in form and is provided with a circular orifice 2, the center of which is formed with an annular V-shaped groove 9.

3 represents the pedal, and it is circular in form with an annular recess 4 on each side, in which is inserted a rubber disk 5, which forms the tread for the foot. This pedal is provided with an integral shank 6, having an enlarged collar 7, formed with a beveled face 8, terminating in a screw-threaded hub 10.

12 is an annular internally-threaded ring mounted on the hub 10, and it is provided with a beveled face 13.

14 represents an annular series of bearing-balls, located in the groove 9 and having a bearing against the face 13 of the ring 12 and the face 8 of the hub 10.

The outer face of the hub 10 is provided with a single radial slot 15, and the corresponding face of the ring 12 is formed with a series of radial slots 16, and a washer 17, having an integral radial arm 18, is secured in place in said hub by a set-screw 19, so that its arm 18 will engage one of the slots 16 in line with the slot 15 in the hub and lock the ring 12 in position with reference to the hub. It will thus be seen that by this means the beveled face on the ring and the beveled face on the hub can be accurately adjusted with reference to the balls in the groove 9 to produce a perfect ball-bearing, which of course can be adjusted for wear and tear at will by means of the ring 12.

Although I have specifically described the construction and relative arrangement of the several elements of my invention I do not desire to be confined to the same, as such changes or modifications may be made as clearly fall within the scope of my invention without departing from the spirit thereof.

Having thus fully described my invention, what I claim as new and useful, and desire to secure by Letters Patent of the United States, is—

The crank 1, comprising the integral end 2' having circular orifice 2 and internal annular groove 9, in combination with the bearing-balls 14, the pedal 3 having collar 7 formed with a beveled bearing-face 8 and screw-threaded hub 10 having radial slot 15, and the internally-threaded ring 12 having beveled bearing-face 13 and a series of radial slots 16, the washer 17 having radial arm 18, and means substantially as set forth, for securing said washer in place to lock the ring to the hub, as and for the purpose set forth.

In testimony whereof I hereunto affix my signature in presence of two witnesses.

CHARLES F. LANCASTER.

Witnesses:

ROBERT C. AMES,  
JAMES PETOSKEY.